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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/583,357	08/25/2008	Bernhard Michalski	MICH3006/FJD	8167
23364 BACON & THO	7590 05/27/200 OMAS, PLLC	EXAMINER		
625 SLATERS	LANE	BRAINARD, TIMOTHY A		
FOURTH FLOOR ALEXANDRIA, VA 22314-1176			ART UNIT	PAPER NUMBER
			3662	
			MAIL DATE	DELIVERY MODE
			05/27/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)		
	10/583,357	MICHALSKI, BERNHARD		
Office Action Summary	Examiner	Art Unit		
	TIMOTHY A. BRAINARD	3662		
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the c	orrespondence address		
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be time will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).		
Status				
1) ☐ Responsive to communication(s) filed on 25 A 2a) ☐ This action is FINAL . 2b) ☐ This 3) ☐ Since this application is in condition for alloware closed in accordance with the practice under B	s action is non-final. nce except for formal matters, pro			
Disposition of Claims				
4) ☐ Claim(s) 12-31 is/are pending in the applicatio 4a) Of the above claim(s) is/are withdra 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 12-31 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/o Application Papers 9) ☐ The specification is objected to by the Examine	wn from consideration. or election requirement. or.	hu tha Eveninan		
10)☑ The drawing(s) filed on 19 June 2006 is/are: a Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11)☐ The oath or declaration is objected to by the Explanation	drawing(s) be held in abeyance. See tion is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).		
Priority under 35 U.S.C. § 119				
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 				
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ate		

Application/Control Number: 10/583,357 Page 2

Art Unit: 3662

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 12-22 are rejected under 35 U.S.C. 102(b) as being anticipated by Cordes (GB 2238439). Cordes teaches (claim 12) a method for optimizing emission of broadband transmission pulses of a pulse echo method, comprising the steps of: transmitting transmission pulses with a preselected pulse repetition frequency; and switching the polarity of a pulse with each cycle of the pulse repetition frequency, depending on a random sequence (abs and fig 5), (claim 13 and 17) the pulse repetition frequency is constant (page 1, para 3), (claim 15 and 19) the pulse form of the transmission pulse is of any shape (page 1, para 3), (claim 16) suppressing individual pulses with each cycle of the pulse repetition frequency, depending on a random sequence (fig 5 and abs), (claim 20) two transmission signal generators of differing polarity, between whose output signals switching occurs back and forth, depending on a produced, random sequence, (claim 21) two transmission signal generators of differing polarity, which are switched in and out, depending on a produced, random sequence, (claim 23) a transmission signal generator which can be switched in its polarity and which is switched, depending on a produced, random sequence (fig 5 and abs). With

respect to claims 14 and 18, it is inherent that the pulse repetition frequency is additionally jittered.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 23-31 are rejected under 35 U.S.C. 103(a) as being unpatentable over Cordes as applied to claim 32, 21, and 22 above, and further in view of Ogino et al (US 2001/0053279). Ogino teaches (claim 23, 26, and 29) the random sequence (PNCode) is a PN-code sequence produced by a PN-code generator circuit (para 25), (claim 24, 27, and 30) PN-code generator circuit comprises a multi-stage, shift register having feedback taps and (claim 25, 28, and 31) an XOR-gate for the feedback taps para 89). It would have been obvious to modify Cordes to include the random sequence is a PN-code sequence produced by a PN-code generator circuit (para 25), (claim 24, 27, and 30) PN-code generator circuit comprises a multi-stage, shift register having feedback taps and (claim 25, 28, and 31) an XOR-gate for the feedback taps because each is one of multiple design choices with no new or unexpected results.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to TIMOTHY A. BRAINARD whose telephone number is (571) 272-2132. The examiner can normally be reached on Monday - Friday 8:00 - 5:00.

Application/Control Number: 10/583,357 Page 4

Art Unit: 3662

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thomas Tarcza can be reached on (571) 272-6979. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/T. A. B./ Examiner, Art Unit 3662

/Thomas H. Tarcza/ Supervisory Patent Examiner, Art Unit 3662